Applicants: Philip O. Livingston and Friedhelm Helling

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In the Claims

Please amend claims 78, 93, and 95 as follows.

A marked-up version of the amended claims, wherein the deleted material is in brackets and the inserted material is underlined, is attached hereto as **Exhibit A**.

. (Twice Amended) A composition which comprises:

- a) a conjugate of i) a ganglioside derivative which comprises an unaltered oligosaccharide part and an altered ceramide portion comprising a sphingosine base, to ii) Keyhole Limpet Hemocyanin or a derivative thereof comprising an ε-aminolysyl group;
- b) a saponin derivable from the bark of a Quillaja saponaria Molina tree; and
- c) a pharmaceutically acceptable carrier; the relative amounts of such conjugate and such saponin being effective to stimulate or enhance antibody production in a subject; wherein the ganglioside derivative is a derivative

wherein the ganglioside derivative is a derivative of a ganglioside selected from the group consisting of GM2, GM3, GD2, GD3 lactone, O-acetyl GD3 and GT3;

wherein in the conjugate the ganglioside derivative is covalently bound to Keyhole Limpet Hemocyanin or the derivative thereof through a C-4 carbon of the sphingosine base of the ceramide portion of the ganglioside derivative to the ϵ -aminolysyl group of Keyhole Limpet Hemocyanin or the derivative

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Page 3 thereof, wherein the C-4 carbon is present in a CH,

group, and

wherein the derivative comprises Keyhole Limpet Hemocyanin linked to a immunological adjuvant, a

non-ionic block copolymer, or a cytokine. --

93. (Twice Amended) A method of stimulating or enhancing antibody production in a subject which comprises administering to the subject an effective amount of a composition which comprises:

- a) a conjugate of i) a ganglioside derivative which comprises an unaltered oligosaccharide part and an altered ceramide portion comprising a springosine base, to ii) Keyhole Limpet Hemocyanin or a derivative thereof comprising an ε-aminolysyl group;
- b) a saponin derivable from the bark of a Quillaja saponaria Molina tree; and
- c) a pharmaceutically acceptable carrier; the relative amounts of such conjugate and such saponin being effective to stimulate or enhance antibody production in the subject;

wherein the ganglioside derivative is a derivative of a ganglioside selected from the group consisting of GM2, GM3, GD2, GD3, GD3 lactone, O-acetyl GD3 and GT3;

wherein in the conjugate the ganglioside derivative is covalently bound to Keyhole Limpet Hemocyanin or the derivative thereof through a c-4 carbon of the sphingosine base of the ceramide portion of the ganglioside derivative to the ϵ -aminolysyl group of

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Keyhole Limpet Hemocyanin or the derivative thereof, wherein the C-4 carbon is present in a CH₂ group so as to thereby stimulate or enhance antibody production in the subject, and wherein the derivative comprises Keyhole Limpet Hemocyanin linked to an immunological adjuvant, a non-ionic block copolymer or a cytokine.—

(Twice Amended) A method of treating a cancer in a subject which comprises administering to the subject an effective cancer treating amount of a composition which comprises:

- a) a conjugate of i) a ganglioside derivative which comprises an unaltered oligosaccharide part and an altered ceramide portion comprising a sphingosine base, to ii) Keyhole Limpet Hemocyanin or a derivative thereof comprising an & aminolysyl group;
- b) a saponin derivable from the bark of a Quillaja saponaria Molina tree; and
- c) a pharmaceutically acceptable carrier; the relative amounts of such conjugate and such saponin being effective to stimulate or enhance antibody production in the subject; wherein the ganglicated derivative is a derivative of a ganglicate selected from the group consisting of GM2, GM3, GD2, GD3, GD3 lactone, O-acetyl GD3 and GT3;

wherein in the conjugate the ganglioside derivative is covalently bound to Keyhole Limpet Hemocyanin or the derivative thereof through a C-4 carbon of the

95.

